# TEMPE POLICE DEPARTMENT: NORTH SUBSTATION, HEADQUARTERS RENOVATION, AND EQUINE FACILITY



1/3/2020

Feasibility Study

Study of the Tempe Police Department North Substation, Headquarters Renovation, and Equine Facility needs and estimated project costs.

### Tempe Police Department: North Substation, Headquarters Renovation, and Equine Facility

#### FEASIBILITY STUDY

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#### **EXECUTIVE SUMMARY**

#### **Purpose**

The Tempe Police Department provides professional police services to a community of about 180,000 residents. Additionally, Tempe is a major employment and educational center and the department services an estimated daily population of around 240,000 individuals. The Tempe police department focuses on deterring crime, enhancing the quality of work and life in the local community, and helping to make Tempe a community that continues to welcome a diverse family, student, and employment population. Tempe has limited facilities to operate out of, and as the community trends toward densification on its northern edges, those facilities are proving less strategically located. The Department must address the increased service demand and response-time demands as community development progresses.

The Tempe Facilities Master Plan (FMP) prepared by Makers in 2019 analyzed the City's existing facilities and departments along with future needs and developed a master plan to prioritize the necessary facility space needs over the coming years. As a city department, the Tempe Police Department was identified as having facilities in poor condition and poor functional usage. As a result of the FMP, the Police Department was suggested to relinquish usage of 10,000 square feet of space in the headquarters building to the courts for their use. Between vacating this space and planning for the growth and densification of the City, the Makers' FMP identified the need for a new substation and a new equine facility.

The purpose of this current study is to analyze the spatial needs and associated costs for a headquarters renovation, new north substation, and new equine facility at a higher level of detail than the previous FMP. This level of detail should be sufficient for budgeting capital improvement projects and creating a plan which would support the growth and strategic goals of the Police Department in the future.

#### **Philosophy**

Tempe has unique department and facility needs compared to other local cities. Tempe sits as a major employment center; the Police Department serves a large number of people that are not residents of Tempe. Tempe is experiencing densification, which results in different needs than traditional suburban communities might have. Policing practices will also change over time as densification occurs. Tempe is also an active event City, hosting multiple large-scale events and supporting events at ASU. As ASU continues to develop and expand its facilities, the Tempe Police Department will need to change appropriately.

The identification of department needs that resulted from the Tempe Facilities Master Plan was a result of facility conditions and functional usage. This current study is focused on size and cost analysis for capital improvement planning. Limited analysis is included in determining specific division relocations within the departments, and allocation of personnel between existing and new facilities. The results provided herein establish solely future space needs and estimated costs.

#### **Current Issues**

In the Tempe Facilities Master Plan and through the investigations of this study, the following issues were identified with the current Police facilities:

#### Police Headquarters

- Location works well for administration but is not effective for patrol coverage
- Conflict exists in a single lobby serving both Courts and Police



- Conflict in other shared spaces
- There is no ability to expand the groups that are currently housed here
- Courts needs more space
- Increased traffic in the area impacts effectiveness
- The aging Police/Courts Complex and constrained site not a good candidate for building expansion

#### Kiwanis Yard Equine Unit

- Structures in poor condition
- Facility is undersized
- Configuration negatively impacts both Public Works and Equine operations
- Location is not ideal for deployment to downtown

#### Kiwanis/Hawk Substation

- Facility is in poor condition and is undersized
- Facility has no public use, limited security

#### City Hall - Garden Level (bike unit)

- Undersized for current bike operations and unable to expand with services
- Space will be needed by other adjacent city departments

#### Other Issues

Lakeside and ASU development causing service demand growth and increased traffic intensity in north Tempe

#### Recommendations

One of the main objectives of this study is to establish the spatial requirements of affected facilities. For the purposes of the study, the project is divided into the three main groupings.

- Headquarters Renovation
  - O Department Administration, Bike Unit, and limited Investigative Operations
  - Renovate existing spaces to account for staff moves
  - Add a new lobby, West of courts space on 5<sup>th</sup>. Adds separate public entrance for Police services to the existing Headquarters, separating court and police program
  - Maintains jail to court circulation benefits
- New North Substation
  - Should be in the northern area of the city in order to address densification and calls for service growth, departmental presence, and community services
  - O Space for Patrol, K-9, Gang Unit
  - Space for Investigations to move, as remaining space in HQ will not accommodate the entire group
  - Allows department to be flexible in accommodating future growth
- New Equine Facility
  - Appropriate facilities for the Mounted Unit to include the housing, care, training, and staging of the horses



The New Substation and Equine Facility could be placed on separate sites or co-located on a single larger property, if one exists.

The spatial needs are two part: Building Area and Site Area.

#### **Summary of Requirements**

<u>GROUP</u>	BUILDING AREA	SITE AREA
Headquarters Renovation	11,723 sf	Existing
Lobby Expansion	1500 sf	
New North Substation	44,215 sf	5.15 Acres
New Equine Facility	16,997 sf	3.67 Acres
TOTALS	74,435 sf	8.82 Acres

Project cost estimate are based on detailed program areas (measurable quantities) and general assumptions appropriate to the specific facility type. Pricing is based on current local market conditions which may change in future years. The project costs include appropriate soft costs and a design contingency to create a Total Project Budget. No land cost is included.

#### **Project Costs by Future Year**

GROUP	<u>2020</u>	<u>2021</u>	2022	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
Headquarters Renovation + Lobby Expansion	\$4.82	\$4.99	\$5.16	\$5.34	\$5.53	\$5.53	\$5.92
New North Substation	\$24.12	\$24.96	\$25.84	\$26.74	\$27.68	\$27.68	\$29.65
New Equine Facility	\$4.47	\$4.62	\$4.79	\$4.95	\$5.13	\$5.13	\$5.49
TOTALS	\$33.41	\$34.58	\$35.79	\$37.05	\$38.34	\$38.34	\$41.07

Costs are in Millions of Dollars

See ESTIMATE section and Appendix D & E for more detail.

End of Executive Summary



#### METHODOLOGY AND PROJECT PROGRAM

Meetings were conducted with the Police Department staff at different levels who have a vested interest in the department's operations. The Executives and Command staff identified philosophies and priorities for the department. Commanders and Bureau Chiefs provided input for the future vision of the department.

The Department's organization was analyzed from both space needs and strategic working relationship levels, and spatial needs were exported. Based on the existing organization and the necessary relocation of department at the Garden Level and 10 W/Kiwanis, the Bike Unit, Mounted Unit, K9 Unit, and Gang Unit is displaced. Additionally, as part of the Makers Study, the Police Department needs to give approximately 11,000 square feet of the headquarters building to the Courts. In doing so, some of the units become separated. The operational strategy that has been infused to this program methodology is to keep all the investigation units in a single location. These units have critical working relationships; as such, the programs developed within this project assume keeping these units together.

This report developed a program outlining the needs for the future vision of the Department. It is presented as these three specific projects:

- Headquarters Renovation
- New Substation
- New Equine Facility

The program document details the space required for the departments in both building size and site needs, which is then rolled together into a cost estimate.

#### **Project Goals**

The most important project goal is site location. Part of the department's current challenge is the location of the facilities. Facilities for police operations must be located strategically. Choosing an appropriate site will help the department's goal to ease traffic congestion downtown, improve officer response times, and create a more observable police presence in the community on the north side of Tempe Town Lake. Reducing the time and mileage required to move staff from stations to service areas will lower the carbon footprint of the Police Department.

Another important project goal for the future construction is sustainability. The new facility should be designed with its environmental impact in mind. Designing sustainable elements into the building benefits the users, the local community, the region, and beyond. The new substation must focus on the appropriate measures to include without impacting the operational needs of the facility.

Reducing water usage should be a main focus of the future design. Landscape irrigation is typically the largest single water use component of a facility such as this one. Reducing the amount of lawn and the number of trees, selecting native species for groundcover, plants, and trees that require little or no irrigation will significantly reduce the water demand. The new facility should be designed to minimize the number of fixtures. All fixtures should be low-flow to reduce their water use as much as possible.

Another sustainable design consideration is reduction of storm water runoff. Storm water runoff contributes to pollutants contaminating local soils and groundwater. Storm water runoff can be reduced by designing water retention areas into planted landscaping. Bio-swales that capture and slow the storm water, and naturally filter pollutants out of the runoff before it enters the ground or storm drain system are also important.



The new substation should be energy conscious. Strategies for reducing energy usage include east-west orientation, with the longest sides facing north-south. This strategy has no real cost association, but it can

significantly reduce the air conditioning and heating demands. Southern sun exposure needs to be controlled through some form of window treatment or shading device. By controlling the south glazing and maximizing the north glazing, natural daylight is able to enter building spaces which can reduce the need for artificial lighting and the associated electrical demand. Utilization of daylight sensors should be explored.

The building envelope should utilize lighter colored roofing to reflect heat and reduce cooling loads. Green roof incorporation should be explored as a strategy to provide quality outdoor space while reducing the cooling demands. High-performance glazing and insulation are extremely important and should be incorporated to enhance the performance of the building envelope.

The building should implement strategies for generating renewable power on site. Photovoltaic panels could be incorporated to produce solar energy and reduce the demand on the power system.

Additional sustainability strategies should be explored during the design phases, while evaluating the initial cost vs the life-cycle costs in order to determine the best value and mitigate the long-term building maintenance costs.

#### **Department Organization**

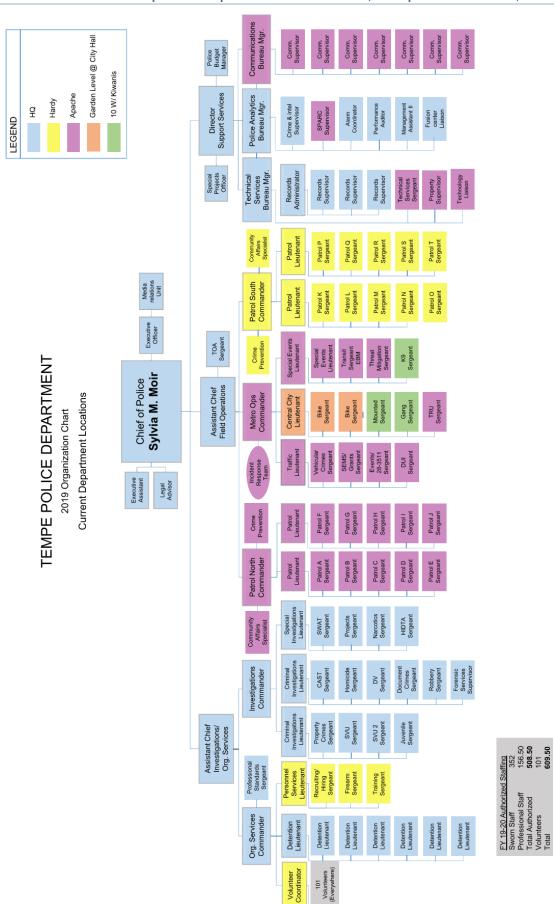
The chart on the following page (page 7) shows the organization of the Tempe Police Department. The colors represent the current location of each unit.

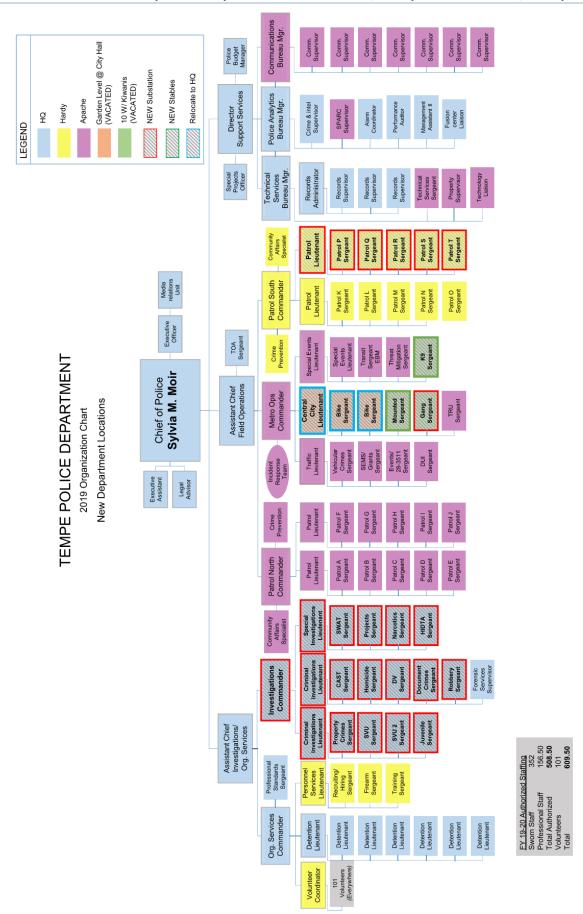
The Department generally operates from 3 locations: Headquarters (HQ), Hardy Substation, and Apache Substation. The two substations divide the city into two areas or districts: North and South. The remainder of the operations are housed at headquarters. As previously noted, the Bike Unit, Mounted Unit, K9 Unit, and Gang Unit are currently operating from other locations.

As the city continues to grow, the department has reached a stage where it is necessary to split patrol into three areas or districts. A great deal of development is occurring on the north side of Tempe Town Lake. This area is currently tough for the department to serve because access is limited. The Department believes it is strategically beneficial for call volume and access as well as community presence for a new substation to be built near to or north of the Lake.

The chart on Page 8 highlights the units that are proposed to be included in the new facilities or relocated to HQ during the renovation process. The new substation includes all of investigations, the Gang Unit, and 1/3 of Patrol. The new equine facility includes the Mounted Unit and the K9 Unit. The Bike Unit is relocated to the existing HQ during the renovation.







#### DEPARTMENT GROWTH PROJECTIONS

The United States Census Bureau produces population projections based on research and collected data. Over the next 40 years, the population of the United States is anticipated to increase to 399 million by the year 2050. The population is moving to more urban settings, leaving behind the suburbia lifestyle and desiring the convenience and lifestyle of a large downtown. This trend will likely result in the country's largest urban areas becoming more densified.

In order to establish a facility size, we must project the growth of the department over time. It is prudent to plan for at least 20 years of growth and try to predict those needs. This was analyzed in many ways and compared. Different trends were reviewed, including crime rates and population growth. Crime rates for property and non-violent crime continue to drop both locally and nationally.

It is important to note that this method of growth is with the assumption that today's work and policing methods are the constant. No adjustments have been made to attempt to predict what role technology, for example, might play in changing the workforce.

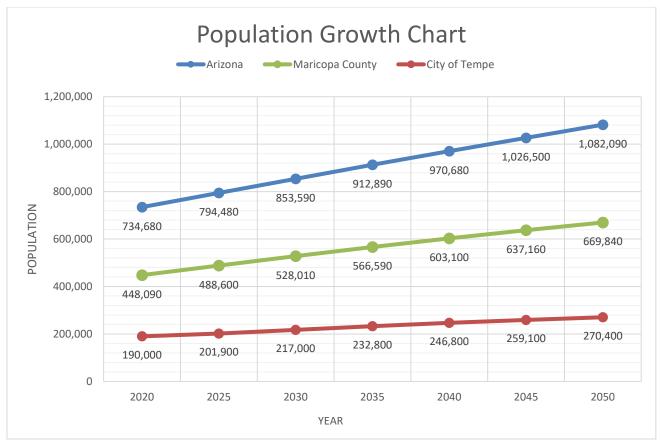
#### **Population and Crime**

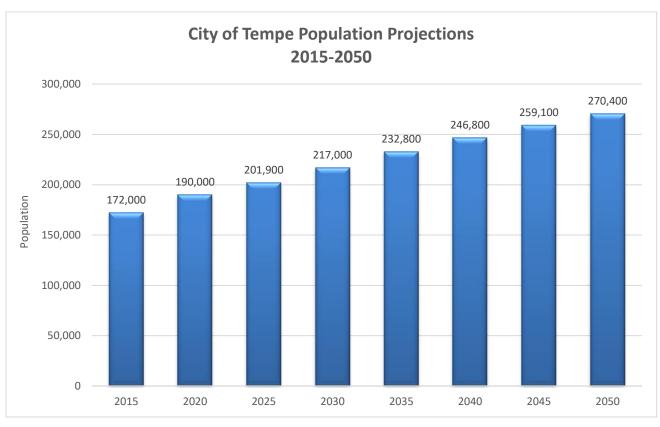
The population in Arizona is projected by the Arizona Department of Administration, Office of Employment & Population Statistics, through the year 2050. The projections shown below are broken into three metrics. The first is the growth projection for the state of Arizona as a whole. The state is expected to grow about 1.6% annually through 2050.

The second metric is the projection of population growth for Maricopa County. The county is expected to see growth of 1.7% annually through 2050. This is one of the top growth areas in the nation. According to the Arizona Department of Administration, the greater Phoenix Metro area (Maricopa County and Pinal County) account for 73% of the state's employment. The population growth of Maricopa County is directly impacted by Tempe's accelerated population growth and densification.

The final metric is the projection of the population growth for the City of Tempe. Much of the population of Tempe is attributed to ASU. Tempe has historically had a large employment demographic, and this is expected to accelerate in growth rate as the state and metropolitan area grows. The service population for the Police Department will continue to grow at a fast pace.

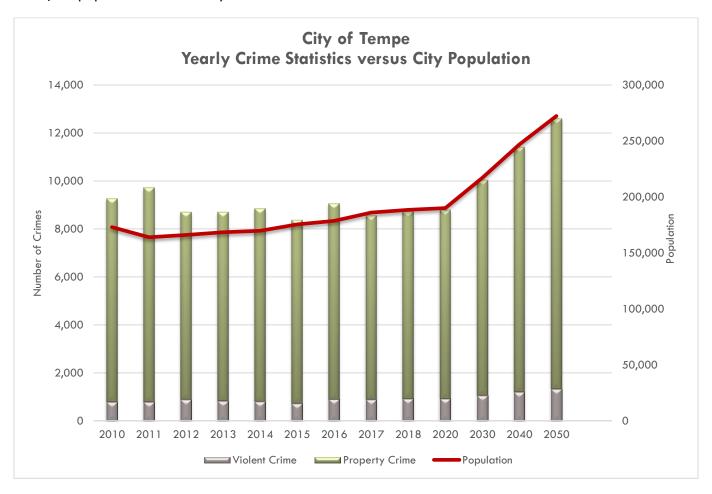








The population of Tempe is projected to increase by over 42% over the next 30 years. From 2015 to 2020, the population increased by over 10%.



Crime rates are predicted to maintain their current relationship with the population, as there are no factors to indicate that crime would accelerate.

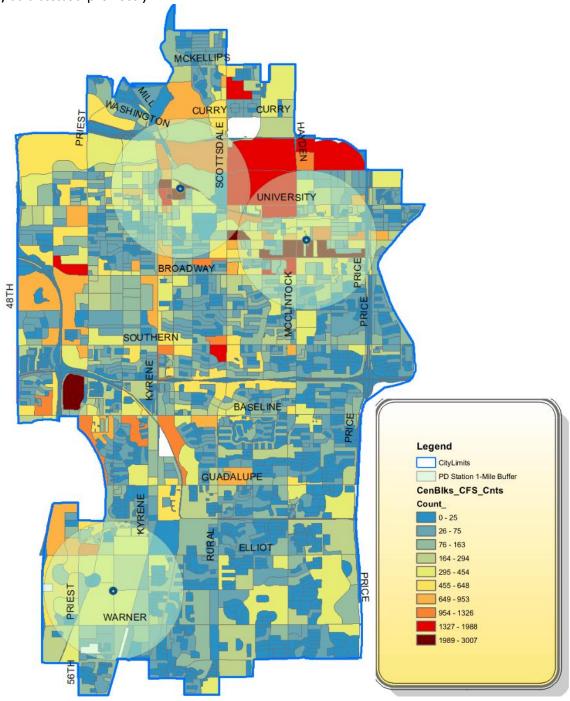
The program spreadsheets developed as a part of this report have articulated a 14% growth rate in terms of space through for 2025 to 2040. This is derived directly from these population growth studies.



#### **NEW NORTH SUBSTATION**

The new substation is needed to provide service and presence in the rapidly growing north Tempe area. Part of the space allocation for the new substation is for the investigations teams. Moving the investigations teams out of headquarters will free up the necessary space for the Courts.

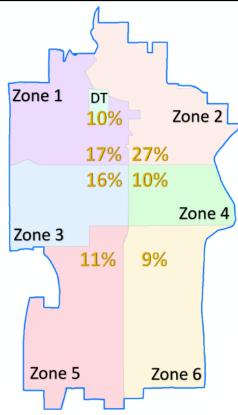
The current breakdown of the calls for service have been mapped by census block, as can be seen in the graph below. The darker red areas in the northern area show current call volume is densifying as the area densifies, as discussed previously.





The substation size allocation includes patrol units, the Criminal Investigations Bureau, and the Special Investigations Bureau. Shared common use spaces are provided, such as conference rooms, interview rooms, fitness facilities and restrooms.

BY ZONE	2012	2013	2014	2015	2016	2017	2018	7-YR TOTAL
DOWNTOWN	11,493	12,894	13,325	14,048	13,534	13,108	12,012	90,414
DOWNTOWN	8.2%	9.3%	9.4%	10.4%	10.4%	9.9%	8.7%	9.5%
ZONE 1	34,893	23,535	23,312	21,553	19,377	20,797	22,330	165,797
ZONE 1	25.0%	16.9%	16.5%	15.9%	14.8%	15.7%	16.3%	17.3%
ZONE 2	28,478	41,085	41,675	37,579	37,075	36,586	38,905	261,383
ZONE Z	20.4%	29.5%	29.5%	27.8%	28.4%	27.7%	28.3%	27.4%
ZONE 3	29,739	20,699	20,503	19,861	19,782	20,635	21,978	153,197
ZONES	21.3%	14.9%	14.5%	14.7%	15.1%	15.6%	16.0%	16.0%
ZONE 4	22,986	10,857	11,725	11,664	11,860	11,545	11,791	92,428
ZONE 4	16.5%	7.8%	8.3%	8.6%	9.1%	8.7%	8.6%	9.7%
ZONE 5	6,840	16,863	17,265	16,850	16,506	16,860	17,791	108,975
ZONES	4.9%	12.1%	12.2%	12.5%	12.6%	12.7%	13.0%	11.4%
ZONE 6	5,213	13,272	13,470	13,655	12,514	12,748	12,573	83,445
ZONE 6	3.7%	9.5%	9.5%	10.1%	9.6%	9.6%	9.2%	8.7%
CITYWIDE	139,642	139,205	141,275	135,210	130,648	132,279	137,380	955,639
CITTWIDE	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
DOWNTOWN	8.2%	9.3%	9.4%	10.4%	10.4%	9.9%	8.7%	9.5%
NORTH	45.4%	46.4%	46.0%	43.7%	43.2%	43.4%	44.6%	44.7%
SOUTH	46.4%	44.3%	44.6%	45.9%	46.4%	46.7%	46.7%	45.9%



A major benefit to adding this substation in the north Tempe area is improved deployment and reduced "miles driven" cost in the rapidly growing community. This northern area would have a greater police community presence with a substation and regular patrol units with readily available access. Additionally, traffic



congestion would ease, as patrol units and resources would be better located for serving this developing area.

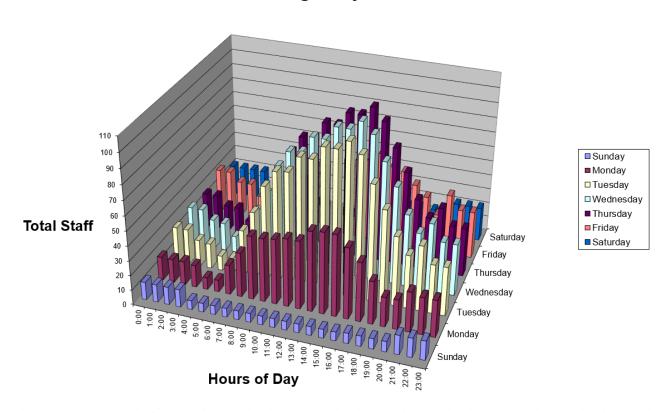
#### **Parking Analysis**

This staffing analysis is used to identify the peak staffing level that might occur at this project site in order to plan for adequate parking space. The program is unique in combining shifts and operations. Some employees bring a personal vehicle to the site and take a city owned vehicle for their shift. This means that for these employees, the site must essentially accommodate two vehicles; however, patrol shifts overlap, so the parking space necessary is not simply determined by the number of staff allocated for the building.

#### Substation Parking Analysis

	MPLOYEES P IRE SUBSTAT			HOURS OF DAY																						
			0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
		Sunday	12	12	12	12	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	13	13	13
		Monday	16	16 16 15 8 8 20 30 43 43 44 46 46 54 55 55 48 40 29 20 20 27 25 25							25															
		Tuesday	24	24	18	17	10	10	31	45	64	75	76	87	87	96	96	102	95	78	63	47	36	44	33	33
Days of the	he Week	Wednesday	26	26	20	19	11	11	32	46	66	77	78	89	89	98	98	104	97	81	66	49	38	46	35	35
		Thursday	24	24	18	18	10	10	31	45	65	76	77	88	88	97	97	103	95	79	64	47	36	44	33	33
		Friday	30	30	24	24	16	16	25	32	34	45	45	54	54	55	56	62	54	52	44	37	26	41	32	32
		Saturday	22	22	22	22	7	7	7	7	6	6	6	6	6	6	7	7	6	16	16	16	16	23	23	23

#### **Parking Analysis**





The peak hour identified is 15:00 on Wednesday. There is a maximum of 104 staff on shift at this time. This number was used for the total staff parking space, and then 25 spaces were allocated for city owned patrol vehicles, and an additional 35 spaces for investigations vehicles. Other various specialty vehicle spaces were also provided for in the program.

#### EXISTING HEADQUARTERS RENOVATION

The existing headquarters building is shared with the Courts.

The diagram below shows the units and the space that those units currently utilize. These spaces are classified with individual codes that align with the program spreadsheet for departmental totals.

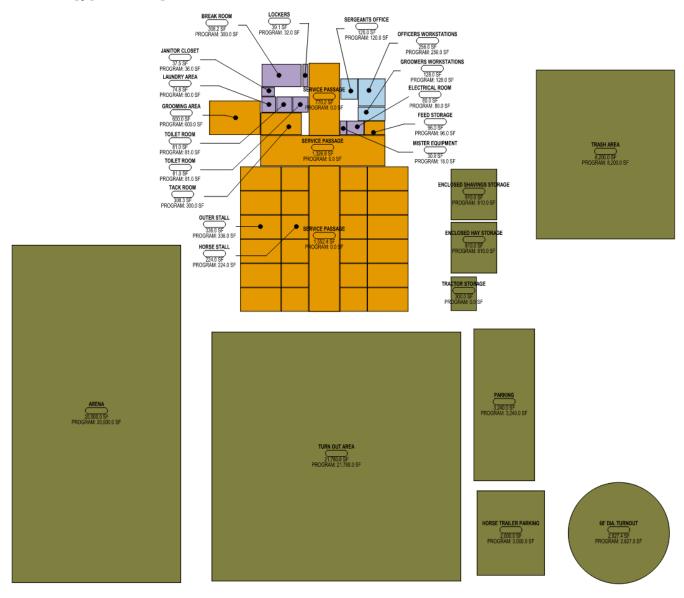
Police services in Building 2 on the first floor will be vacated by Police and allocated to the Courts for their expansion project. The space in Building 1 as shown in the diagram will remain allocated to the Police for their Headquarters operations. Additionally, the renovation includes adding a new public entrance and lobby, dedicated for Police services. The existing entry would then be dedicated to the Courts services.





The headquarters renovation also includes a moderate renovation of existing space in Building 1 to accommodate the bike unit which would relocate to the headquarters from the currently occupied garden level at city hall. Additional renovation costs include re-organizing the space to efficiently accommodate the consolidated units within Building 1 and its new lobby.

#### **NEW EQUINE FACILITY**



The mounted unit currently shares a site and facilities with the City's Park Maintenance department. The existing facilities for the mounted unit are inadequate for the operations. The structure is in poor condition and is too small for the current size of the unit.

The current location of this unit is not ideal; This facility should be located near the downtown area. Relocating this unit and building to a new facility would significantly reduce or eliminate the need for trailering of the



horses to the patrol and event sites, reduce overall operating costs, and allow for better and more frequent utilization of the unit.

This new facility will also include the K9 unit. The K9 facility is in very poor condition and like the mounted unit is not located strategically for their operations and deployment. A more centralized location would benefit the department and the community.



#### **ESTIMATE**

The budget estimate is built including cost for structures, site development cost (parking, landscape, retention, utilities), and furniture, fixtures, and equipment (FFE). Different areas of the projects have different construction costs per square foot associated with them. These are based on historical data.

Costs are escalated to allow for probable change in cost over time. The estimate reflects a November 2019 start date and is escalated annually for 6 years.

Assumptions used in the estimate:

- 1. Escalation of 3.5% per year.
- 2. Land cost is excluded.
- 3. Vacant land acquisition, there will be no existing structures on the site to abate or demolish.
- 4. Land will be suitable for construction, no adverse soil conditions which may require additional site preparation, or more expensive foundation systems.
- 5. Off-site utilities and improvements are not included; should any be required it will be an added cost to the project.

#### **Project Costs by Future Year**

GROUP	2020	<u>2021</u>	2022	2023	2024	<u>2025</u>	<u>2026</u>
Headquarters Renovation + Lobby Expansion	\$4.82	\$4.99	\$5.16	\$5.34	\$5.53	\$5.53	\$5.92
New North Substation	\$24.12	\$24.96	\$25.84	\$26.74	\$27.68	\$27.68	\$29.65
New Equine Facility	\$4.47	\$4.62	\$4.79	\$4.95	\$5.13	\$5.13	\$5.49
TOTALS	\$33.41	\$34.58	\$35.79	\$37.05	\$38.34	\$38.34	\$41.07

Costs are in Millions of Dollars

See Appendix D & E for more detail.



#### **APPENDIX**

- Appendix A Program Spreadsheet
- Appendix B Existing HQ Program Floor Plans
- Appendix C Existing HQ Program Spreadsheets
- Appendix D Project Cost Estimate
- Appendix E Project Cost Estimate Escalation Summary

# Appendix A – Program Spreadsheets

The program spreadsheets on the following pages represent the anticipated needs of the department. The space needs were compiled through departmental interviews with various user groups based on anticipated staffing levels, bureau organizations, and future substation needs, including the equine unit and HQ renovation. The spreadsheets were developed for space needs as of the date of the report, and then escalated based upon the growth projections as explained in the report on Page 9.



Substation Units	
Patrol Division	9,365
CIB	12,207
SIB	6,350
Common Use Spaces	10,863

Total Sq Ft 38.785

Sq Ft with 14% Projected Department Growth through 2050

**44,215** New Build, north of Lake

Site Needs 4.13 Acres Site Size Needed **5.15 Acres** 

**Equine & K9 Facility** 

Stable Building 14.058 K9 Area 852

Total Sq Ft 14.910

Sq Ft with 14% Projected Department Growth through 2050

**16,997** New Build

**Site Needs** 3.28 Acres **3.67 Acres** Site Size Needed

**HQ** Renovation

Vacated Space in Bldg 2

(given to courts) 11,770 (NO renovation work for PD) CIB 2,677 (NO renovation work for PD) SIB 6,209 (NO renovation work for PD) 1,500

New Lobby Space

Vacated CIB Space (to new

9,223 substation)

Vacated SIB Space (to new

substation)

Renovate Bikes Space (from

2500 Garden Level)

13,223 \*No growth factors included for renovation Total So Ft to Renovate

0

Sq Ft available in HQ after substation is built and SIB and CIB moved (future expansion/growth space)

10,723



## CITY OF TEMPE NEW POLICE SUBSTATION PATROL DIVISION

Name	Quantity	Size	Not Area	Comments
Administration / Support	Quantity	Size	Net Area	Comments
Assistant Chief of Police	1	12.5' x 18'	225	
Admin. Commander Office	1	12' x 12.5'	150	
Admin. Officer Office	1	10' x 12'	120	
Admin. Sergeant Office	1	10' x 12'	120	
Admin. Assistant Workstation	2	10' x 11'	220	
Service Assistant Workstation	2	8' x 8'	128	
Service Assistant Workstation Storage	1	1' x 1'	1	
Off Duty Coordinator	1	10' x 12'	120	
Copy / Printers / Shredder Bins Work Area	1	10' x 17'	170	
Records Room / Files	1	15.5' x 18'	279	
Patrol Conference Room	1	15' x 22'	330	
Off Duty Board Area	1	3.5' x 8'	28	
Patrol	ı	0.0 10	20	
Bureau Commander Office	1	12' x 12.5'	150	
Patrol Sergeants Office (2 person shared)	3	12.5' x 20'	750	
Patrol Briefing Room	1	35' x 24'	840	
Patrol Work Area	1	21' x 14'	294	
Patrol Report Writing Cubicle	4	8' x 8'	256	
Patrol Equipment and Supplies	1	12' x 14.5'	174	
Patrol Mailboxes Area	1	5' x 13.5'	68	
Bulk Form / Paper Storage	1	8' x 10'	80	
Crime Analysis Unit	1	20' x 20'	400	
Juvenile Processing / Waiting	1	10' x 15'	150	
Interrogation Room	1	10 x 13 12' x 10'	120	
Interrogation Room	5	12 x 10 12.5' x 12'	750	
Decontamination Room	1	6' x 7'	42	
Monitor Room	1	10' x 20'	200	
	1			
Multipurpose Room (For 30 people)	I	30' x 35'	1,050	
Subtotal:			7,215	
Circulation Gross Up:		18%		
Building Gross Up :		10%		1
Total Building Gross Square Feet:		10,0	9,365	
Total Lamaning Cross Square room			0,000	



# CITY OF TEMPE NEW POLICE SUBSTATION CRIMINAL INVESTIGATIONS BUREAU

	1	1		1
Name	Quantity	Size	Net Area	Comments
Administration / Support				
Admin. Commander Office	1	12' x 12.5'	150	
Admin. Officer Office	1	10' x 12'	120	
Admin. Sergeant Office	1	10' x 12'	120	
Admin. Assistant Workstation	1	10' x 11'	110	
Service Assistant Workstation	1	8' x 8'	64	
Service Assistant Workstation Storage	1	1' x 1'	1	
Off Duty Coordinator	1	10' x 12'	120	
Copy / Printers / Shredder Bins Work Area	1	10' x 17'	170	
Evidence Area	1	20' x 25'	500	
Records Room / Files	1	15.5' x 18'	279	
Patrol Conference Room	1	15' x 22'	330	
Off Duty Board Area	1	3.5' x 8'	28	
Wire Tap w/Bathroom	1	20' x 30'	600	
Dog Kennel	2	5' x 8'	80	
Conference Room	2	12' x 20'	480	
Storage	1	20' x 30'	600	
CAST		1		
Sergeant	1	12' x 12.5'	150	
CAST Detective	5	8' x 8'	320	
Deputy US Marshal	1	8' x 8'	64	
USMTF	1	8' x 8'	64	
HOMICIDE - MISSING PERSONS	1	1		
Sergeant	1	12' x 12.5'	150	
Homicide Detective	5	8' x 8'	320	
DNA/Forensics Detective	1	8' x 8'	64	
DV - NIGHT SQUAD		1		
Sergeant	1	12' x 12.5'	150	
Night Squad	5	8' x 8'	320	
DOCUMENT CRIMES/ARSON		1		
Sergeant	1	12' x 12.5'	150	
Arson, DC	3	8' x 8'	192	
DC	1	8' x 8'	64	
ROBBERY-AGG ASSAULTS		1		
Sergeant	1	12' x 12.5'	150	
Robbery Detective	5	8' x 8'	320	
AUTO/PAWN/PROPERTY CRIMES		1		
Sergeant	1	12' x 12.5'	150	
Auto Theft	2	8' x 8'	128	
Metal	2	8' x 8'	128	
Arson	2	8' x 8'	128	
Pawn	1	8' x 8'	64	
SPECIAL VICTIMS UNIT				
Sergeant	1	12' x 12.5'	150	
1, DT	1	8' x 8'	64	
6	1	8' x 8'	64	
4	1	8' x 8'	64	



Cold Cases	2	8' x 8'	128	
3	2	8' x 8'	128	
5	1	8' x 8'	64	
Victim Advocate	1	8' x 8'	64	
SVU 2		1	- 1	
Sergeant	1	12' x 12.5'	150	
Computer Forensic	2	8' x 8'	128	
Dispo/Admin Officer	1	8' x 8'	64	
Internet Crimes Against Children	2	8' x 8'	128	
Sex Offender Notific	1	8' x 8'	64	
Child Abuse/Neglect	1	8' x 8'	64	
Juvenile Unit		1	•	
Sergeant	1	12' x 12.5'	150	
Officer	9	8' x 8'	576	
		1	'	
Subtotal:		1	8,878	
Circulation Gross Up:		25%	2,220	
Building Gross Up :		10%	1,110	
Total Building Gross Square Feet:		1 -	12,207	
		1		
		1		
		1		
		1		
		1		
		1		
		1		
		1		

## CITY OF TEMPE NEW POLICE SUBSTATION SPECIAL INVESTIGATIONS BUREAU

Name	Quantity	Size	Net Area	Comments
Administration / Support				
Admin. Commander Office	1	12' x 12.5'	150	
Admin. Officer Office	1	10' x 12'	120	
Admin. Sergeant Office	1	10' x 12'	120	
Admin. Assistant Workstation	1	10' x 11'	110	
Service Assistant Workstation	1	8' x 8'	64	
Service Assistant Workstation Storage	1	1' x 1'	1	
Off Duty Coordinator	1	10' x 12'	120	
Copy / Printers / Shredder Bins Work				
Area	1	10' x 17'	170	
Records Room / Files	1	15.5' x 18'	279	
Patrol Conference Room	1	15' x 22'	330	
Off Duty Board Area	1	3.5' x 8'	28	
EOD explosives	1	10' x 20'	200	
Impound Area	1	12' x 20'	240	
Storage	1	20' x 30'	600	
Server Room	1	15' x 10'	150	
Dog Kennel	3	5' x 8'	120	
TACTICAL UNIT (SWAT, TST, EOD)			0	
Sergeant	1	12' x 12.5'	150	
EOD Detective	2	8' x 8'	128	
PROJECTS UNIT		ONO	120	
Sergeant	1	12' x 12.5'	150	
SWAT - T	1	8' x 8'	64	
SWAT	4	8' x 8'	256	
SWAT/DEA	1	8' x 8'	64	
NARC, SP/DEA	1	8' x 8'	64	
US MARSHALL	1	8' x 8'	64	
SWAT, K9/DEA	1	8' x 8'	64	
TECH INVEST.	1	8' x 8'	64	
H.I.T.D.A.		0 7 0	04	
Sergeant	1	12' x 12.5'	150	
NARCOTICS UNIT		12 X 12.5	130	
Sergeant	1	12' x 12.5'	150	
Vacant	1	8' x 8'	64	
NARC, T	1	8' x 8'	64	
NARC, CNT	2	8' x 8'	128	
NARC	1	8' x 8'	64	
NARC, K9, T, HM	1	8' x 8'	64	
	1		64 64	
ASSET FORF.	ı	8' x 8'	04	
Subtotal:			1 610	
		250/	4,618	
Circulation Gross Up:		25%	•	
Building Gross Up :		10%		
Total Building Gross Square Feet:			6,350	
I				

## CITY OF TEMPE NEW POLICE SUBSTATION GENERAL / COMMON USE SPACES

		1		
Name	Quantity	Size	Net Area	Comments
General / Common Use	•			
Volunteer Workstations	1	16' x 16'	256	
Public Entry - Overall View	1	For Reference Or	nly	
Outer Lobby & Waiting Area	1	27' x 14.5'	392	
Reception & Inner Lobby / Call Back / CSO	1	30' x 27.5'	825	
Package Delivery	1	10.5' x 7.5'	79	
CCTV / Access Control	1	7.5' x 9'	68	
Break Room	1	18' x 25'	450	
Lactation Room	1	8' x 8'	64	
Exercise / Weight Room	1	28' x 30'	840	
Defensive Tactics Room	1	36' x 34'	1,224	
Family Room	1	16.5' x 11'	182	
Mail Receiving and Distribution Room	1	9' x 6'	54	
Patrol - Gun Lockers	1	18' x 22'	396	
Custodial / Janitor Room	2	7' x 8'	112	
A/V and Chair Storage Room	1	10' x 20'	200	
Fitness Storage Room	1	9' x 6'	54	
General Storage Room	2	10' x 12'	240	
Janitorial Storage Room	1	8' x 10'	80	
Building Maintenance Storage Room	1	8' x 10'	80	
Public Restroom - Men & Women	1	11' x 14'	154	
Toilet Room - Single	1	7.66' x 7.2'	56	
Locker Room - Men (Lockers)	50	2' x 6'	600	
Locker Room - Women (Lockers)	20	2' x 6'	240	
Shower Area - Men	6	3' x 9'	162	
Shower Area - Women	3	3' x 9'	81	
Restroom for Lockers - Men	1	12' x 20'	240	
Restroom for Lockers - Women	1	12' x 20'	240	
Mechanical Equipment Room	1	20' x 25'	500	
Electrical Room	1	20' x 25'	500	
Subtotal:		_	8,369	
Circulation Gross Up:		18%		
Building Gross Up :		10%	•	
Total Building Gross Square Feet:		- 1070	10,863	
Total Building Gross Square Feet.		-	10,003	
		_		
		$\dashv$		
		-		



#### CITY OF TEMPE NEW POLICE SUBSTATION SITE SPACES

				Circulatio		Total Net	
Name	Quantity	Size	Net Area	n Factor		Sq. Ft.	Comment
Parking							
Staff/Employee Parking Spaces	105	10' x 20'	21,000		21000	,	
Patrol Vehicles Parking Spaces	25	12' x 20'	6,000		6000	12,000	
Public Parking Spaces	30	10' x 20'	6,000	100%	6000	12,000	
Investigations Vehicles	35	10' x 20'	7,000	100%	7000	14,000	
Specialty Vehicles	5	12' x 20'	1,200	100%	1200	2,400	ı
Mobile Command Vehicle Staging Area	1	15' x 50'	750	100%	750	1,500	
DUI Van / RV Parking (Non-Use)	1	15' x 50'	750	100%	750	1,500	
Future Large Vehicle Parking	1	15' x 50'	750	100%	750	1,500	
Light Vehicle Maintenance / Supplies Storage	1	24' x 40'	960	100%	960	1,920	
Biohazard Parking	1	12' x 20'	240	100%	240	480	
Downed Vehicle Parking	2	12' x 20'	480	100%	480	960	
Service Assist Truck Parking	2	12' x 20'	480	100%	480	960	
Common Use Spaces							
Public Bike Rack	1	7' x 12'	84	0%	0	84	
Pistol Locker Area	1	5' x 5'	25	0%	0	25	
Hard Surface Area	1	50' x 100'	5,000	0%	0	5,000	
Grass Area	1	50' x 50'	2,500	0%	0	2,500	
Subtotal:			53,219				
Circulation Gross Up:		100%	53,219				
Total Gross Square Feet Programmed: 106,438 sq ft 2.44 Acres						Acres	
Landscape Area			0.5	Acres			
Water Retention Needs 0.5 Acres							
Total Acreage Recommended 3.44 Acres							
Total Acreage for "Ideal" Site		20%	4.13	Acres			
Total Acreage for Ideal Site							

				Net Area
Department	Space Name	Quantity	Size	Sq Ft
	Stable Building	•		
Office	Sergeants Office	1	12' x 10'	120
Office	Officers Workstation	4	8' x 8'	256
Office	Groomers Workstation	2	8' x 8'	128
Support	Break Room	1	15' x 20'	300
Support	Toilet Room - Single	2	9' x 9'	162
Support	Lockers	8	2' x 2'	32
Support	Mister Equipment	1	3' x 6'	18
Support	Laundry Area	1	10' x 8'	80
Support	Janitorial Closet	1	6' x 6'	36
Support	Electrical Room	1	8' x 10'	80
lorse Area	Tack Room	1	12' x 25'	300
lorse Area		1	8' x 12'	96
	Feed Storage			
lorse Area	Horse Stall	12	14' x 16'	2,688
lorse Area	Outer Stall	12	14' x 24'	4,032
lorse Area	Service Passage	1	18' x 202'	3,636
lorse Area	Grooming Area	1	20' x 30'	600
	Subtotal			12,564
	K9 Unit			
Office	Sergeants Office	1	12' x 10'	120
Office	Officers Workstation	5	8' x 8'	320
og Area	Dog Kennels	8	6' x 5'	240
og Area	Dog Wash	1	6' x 5'	30
	Subtotal:			710
	Tatal			40.074
	Total: Circulation Gross Up:		18%	13,274 2,389
	Circulation Gross Up: Building Gross Up :		18% 10%	2,389 1,566
	Circulation Gross Up:			2,389
ite	Circulation Gross Up: Building Gross Up : Total Building Gross Square Feet:	20		2,389 1,566 <b>17,230</b>
	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces		9' x 18'	2,389 1,566 <b>17,230</b> 3,240
iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack	1	9' x 18' 4' x 6'	2,389 1,566 <b>17,230</b> 3,240 24
ite ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking	1 5	9' x 18'	2,389 1,566 <b>17,230</b> 3,240 24 2,000
ite ite ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre	1 5 1	9' x 18' 4' x 6'	2,389 1,566 <b>17,230</b> 3,240 24
ite ite ite ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena)	1 5	9' x 18' 4' x 6'	2,389 1,566 <b>17,230</b> 3,240 24 2,000
iite iite iite iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps	1 5 1 1	9' x 18' 4' x 6' 10' x 40'	2,389 1,566 17,230 3,240 24 2,000 21,780
ite ite ite ite ite ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size)	1 5 1 1	9' x 18' 4' x 6' 10' x 40'	2,389 1,566 17,230 3,240 24 2,000 21,780
ite ite ite ite ite ite ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage	1 5 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810
ite ite ite ite ite ite ite ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage	1 5 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810
ite iite iite iite iite iite iite iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run	1 5 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810
Site Site Site Site Site Site Site	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage	1 5 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810
tite iite iite iite iite iite iite iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run	1 5 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800
ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins)	1 5 1 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
ite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface	1 5 1 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
Site Site Site Site Site Site Site Site	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage	1 5 1 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
Site Site Site Site Site Site Site Site	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface	1 5 1 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
ite iite iite iite iite iite iite iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface Grass Area	1 5 1 1 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
ite iite iite iite iite iite iite iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface Grass Area  Subtotal Building:	1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 5 8,320	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
ite iite iite iite iite iite iite iite	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface Grass Area  Subtotal Building: Subtotal Site: Total:	1 5 1 1 1 1 1 1 1 1 1 1 1 7 58,320 75,550	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
site site site site site site site site	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface Grass Area  Subtotal Building: Subtotal: Total:	1 5 1 1 1 1 1 1 1 1 1,7,230 58,320 75,550 3 Acres	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
Site Site Site Site Site Site Site Site	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface Grass Area  Subtotal Building: Subtotal Site: Total:	1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500
Site Site Site Site Site Site Site Site	Circulation Gross Up: Building Gross Up: Total Building Gross Square Feet:  Parking Spaces Bike Rack Horse Trailer Parking Turn Out Area - 1/2 Acre Obstacle Course (included in Arena) Arena w/ built in ramps (Standard Competition size) Enclosed Hay Storage Enclosed Shavings Storage Dog Run Trash Area (30 bins) Tractor Storage Hard Surface Grass Area  Subtotal Building: Subtotal Site: Total:  1.7	1 5 1 1 1 1 1 1 1 1 1,7,230 58,320 75,550 3 Acres	9' x 18' 4' x 6' 10' x 40' 100' x 200' 27' x 30' 27' x 30' 40' x 20' 10' x 10'	2,389 1,566 17,230 3,240 24 2,000 21,780 20,000 810 810 800 500



CITY OF TEMPE POLICE DEPARTMENT							
Headquarters							
BUILDING SPACES CURRENTLY OCCUPIED - BY DEPARTMENT							
	REAU			Building 2			
	INVESTIGATI	IONS BU					
Basement	CIB-1		4,207	0			
1st Floor	CIB-2		4,406	0			
1st Floor	CIB-3		215	0			
1st Floor	CIB-4		395	0			
1st Floor	CIB-5		0	1,235			
1st Floor	CIB-6		0	1,039			
1st Floor	CIB-7		0	403			
		TOTAL	9,223	2,677		11,900 TOTAL CIB S.F.	
	INVESTIGATIO	ONS BUI	REAU				
1st Floor	SIB-1		0	5,765			
1st Floor	SIB-2		0				
		TOTAL		6,209		6,209 TOTAL SIB S.F.	
	. INTELLIGEN	CE CEN		_			
1st Floor	CIC-1		2,390				
1st Floor	CIC-2	TOTAL	518			0.000 TOTAL OLO O F	
V DWINIET	RATION SERV	TOTAL	2,908	0		2,908 TOTAL CIC S.F.	
1st Floor	AD-1	VICES	0	0	724		
2nd Floor	· ·= ·		5,312		124		
2110 1 1001	AD-Z	TOTAL	5,312		724	6,036 TOTAL AD S.F.	
FORENSI	28	TOTAL	0,012		127	0,000 TOTAL AD 0.1 .	
Basement			2,213	0			
1st Floor	F-2		0				
10111001	· <b>-</b>	TOTAL	2,213			2,896 TOTAL FORENSICS S.F.	
RECORDS	3		_,				
1st Floor	R-1		147	0			
1st Floor	R-2		217	0			
2nd Floor	R-3		4,154	0			
		TOTAL	4,518	0		4, 518 TOTAL RECORDS S.F.	
ΙΤ							
2nd Floor		TOTAL	0	9,875		9,875 TOTAL IT S.F.	
SERVICES							
Basement	_		2,856				
Basement			715	_			
1st Floor	S-3		366				
1st Floor	S-4		672				
1st Floor	S-5		132				
1st Floor	S-6		0				
1st Floor	S-7		0				
1st Floor 1st Floor	S-8 S-9		0	271 893			
2nd Floor			362	093			
2nd Floor			693				
2110 1 1001	J	TOTAL	5,796			7,997 TOTAL SERVICES S.F.	
JAIL		IOIAL	5,7 50	۷,۷۷۱		1,007 TOTAL OLIVIOLO O.I .	
Basement	Jail		0	5,821		5,821 TOTAL JAIL S.F.	
GENERAL				,-		· ·	
	G-1 FITNESS		625	0			
Basement			0				
		TOTAL	625	725		1,350 TOTAL GENERAL S.F.	
GRAND T	OTALS		30,595	28,191	724	59,510	
I							



# Appendix B – Existing HQ Program Floor Plans

The existing program floor plans represent the program currently occupying the headquarters building. The spaces were color coded by department and reference to the spreadsheet and enlarged diagrams contained in Appendix C. These diagrams visualize the spaces that will need to be relocated to accommodate the Courts expansion project.





**Arrington Watkins Architects** 

#### FIG A-2 | EXISTING PROGRAM AREA PLAN - FIRST FLOOR



**Arrington Watkins Architects** 

# Appendix C – Existing HQ Program Spreadsheets

The existing program spreadsheets take the spaces as identified in Appendix B and break them out into rooms, offices, and spatial needs as currently exist. These spreadsheets identify the displaced spaces that the department needs to relocate for the Court expansion. No growth factors are built into this program.



#### CITY OF TEMPE POLICE DEPARTMENT

Headquarters

#### **BUILDING SPACES CURRENTLY OCCUPIED - 1st Floor Building 1**

Space Code	Department	Space Name	Quantity	Size	Net Area Sq Ft	Comments
	CIB	Break Room	1		384	
	CIB	Open Office Workstations	16	6'x8'	768	а
	CIB	Open Office Files and Circulation			765	
	CIB	Private Office	1		290	
	CIB	Private Office 140 s.f. each	3		420	
	CIB	Private Office 120 s.f. each	6		720	
	CIB	CIB Commander Office	1		200	
	CIB	Administration Workstation	1	7'x8'	56	
	CIB	Administration Files and Circulation	1		325	
	CIB	Evidence/Copy Room	1		510	
	CIB	Conference Room	1		390	
	CIB	Quiet Room	1		140	
	CIC	Private Office 120 s.f. each	4		480	
	CIC	Open Office Workstations	13	6'x8'	624	b
	CIC	Open Office Files and Circulation			564	
	CIC	Private Office	1		112	
	CIC	Conference Room	1		905	
	CIC	Shared Office (3 workstations)	1		372	
	R-2	Records Administrator Office	1		213	

Subtotal: 8,238

**EMPLOYEE COUNT: 50** 

TOTAL FLOOR AREA (MINUS STAIR 1135) 10,800

#### COMMENTS



a - Additional 256 s.f. needed for (16) 8'x8' workstations

b - Additional 208 s.f. needed for (13) 8'x8' workstations

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# **PROGRAM DIAGRAM - EXISTING SPACE 1ST FLOOR-BUILDING A**-4 E





#### CITY OF TEMPE POLICE DEPARTMENT

Headquarters

#### BUILDING SPACES TO RELOCATE - 1st Floor Building 2

Space Code	Department	Space Name	Quantity	Size	Net Area Sq Ft	Comments
Coue	Department	1ST FLOOR - BUILDING 2	Qualitity	3126	Sq Ft	Comments
	SIB	Evidence Processing	1		524	
	SIB	Private Office	1		171	
	SIB	Private Office	1		152	
	SIB	Private Office	1		132	
	SIB	Private Office	1		152	
	SIB	Private Office	1		120	
	SIB	Private Office	1		130	
	SIB	Open Office Workstations	18	6'x8'	864	а
	SIB	Open Office Files and Circulation	.0	0 10	1,207	a
	SIB	Briefing/Training Room	1		670	
	SIB	File Storage Room	1		200	
	SIB	Data Analysis Center	1		345	
	SIB	Break Room and Seating Area	1		205	
	SIB	Copy/Print Room	1		206	
	SIB	Admin Office	1		112	
	SIB	EOD Workshop	1		318	
	SIB	TECH INV Workshop	1		274	
	SIB	Data Center Office	1		251	
	SIB	Server Room	1		85	
	SIB	Storage Room	1		444	
	CIB	Computer Forensics Cyber Crime	1		647	
	CIB	Open Office Workstations	•		•	
	0.2	(5 + 3 Future)	8	6'x8'	384	b
	CIB	Open Office Files and Circulation	· ·	07.0	675	Б
	CIB	Private Office	1		174	
	CIB	Private Office	1		128	
	CIB	Conference Room	1		198	
	CIB	Large Interview Area	1		772	
	CIB	Monitor Room	1		125	
	CIB	Interview Room	1		100	
	CIB	Interview Room	1		77	
	CIB	Interview Room	1		74	
	AD-1	PD Reception	1		280	
	AD-1	Lobby	1		189	
	AD-1	Vestibule	1		230	
	AD-1	Fingerprinting	1		190	
	AD-1	Work Area	1		190	
		Total Area to Relo	ocate:		10,995	

**EMPLOYEE COUNT TO RELOCATE: 50** 

#### COMMENTS

a - Additional 288 s.f. needed (18) 8'x8' workstations

b - Additional 128 s.f. needed for (8) 8'x8' workstations



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NORTH

**PROGRAM DIAGRAM - EXISTING SPACE** 2 **1ST FLOOR BUILDING** 

**A-**5

E





#### CITY OF TEMPE POLICE DEPARTMENT

Headquarters

#### **BUILDING SPACES CURRENTLY OCCUPIED - Basement Building 1**

Space	5			0:	N ( A   G   E	•
Code	Department	Space Name	Quantity	Size	Net Area Sq Ft	Comments
	CIB	Break Area	1		66	
	CIB	Open Office Workstations	27	6'x8'	1,296	а
	CIB	Open Office Files and Circulation	21	0.70	1,540	а
	CIB	Private Office	1		128	
	CIB	Private Office	1		128	
	CIB	Private Office	1		130	
	CIB	Private Office	1		125	
	CIB	Conference Room	1		405	
	CIB	Conference Room Closet	1		40	
	CIB	Copy/Printer Area	1		114	
	FSU	Open Office Workstations	7	6'X8'	336	b
	FSU	Open Office Files and Circulation			516	
	FSU	Laboratory	1		193	
	FSU	Laboratory Storage	1		45	
	FSU	Laboratory	1		92	
	FSU	Laboratory	1		195	
	FSU	Storage	1		60	
	FSU	Office	1		105	
	FSU	Office	1		85	
	FSU	Office	1		58	
	FSU	Office	1		61	
	GEN	Weight Room	1		560	
	GEN	Storage	1		150	
	GEN	Storage	1		98	

**Total Gross Square Feet:** 

8,872

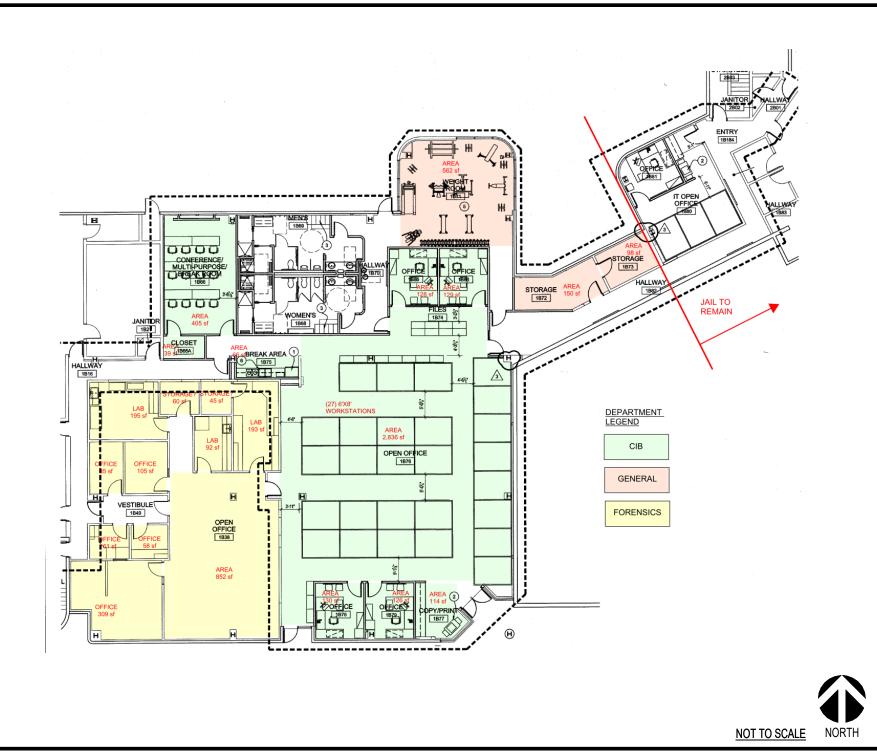
EMPLOYEE COUNT: 38 (CONFIRM EMPLOYEE COUNT IN FORENSICS)

#### COMMENTS



a - Additional 432 s.f. needed for (27) 8'x8' workstations

b - Additional 112 s.f. needed for (7) 8'x8' workstations



# PROGRAM DIAGRAM - EXISTING SPACE BASEMENT FIG A-6







## Appendix D – Project Cost Estimate

The probable cost estimate establishes a current price for the needs as defined in the spreadsheets in Appendix A.



#### CITY OF TEMPE POLICE DEPT. HQ, SUBSTATION & EQUINE FACILITY

OPINION OF PROBABLE PROJECT COST (EXCL. LAND ACQUISITION)

NOVEMBER 21st 2019





#### City of Tempe Police Dept. HQ, Substation & Equine Facility

Opinion of Probable Project Cost (Excl. Land Acquisition)

**Project Details** 

#### Description

#### Basis of Estimate

This estimate has been prepared at the request of Arrington Watkins Architects and is to provide a Feasibility Study Phase estimate of probable construction and project cost (excluding land acquisition) for the City of Tempe Police Department Headquarters, Police Substation and Equine Facility projects located in Tempe, Arizona.

The estimate is based upon measured quantities and built-up rates prepared from the Feasibility Study Phase documentation provided to RLB in October & November 2019, prepared by Arrington Watkins Architects.

Where information was insufficient, assumptions and allowances were made based wherever possible on discussions with the Architect and/or Engineers.

It is assumed that the project will be competitively bid by four (4) to six (6) general contractors and that the awarded General Contractor and all Subcontractors will be required to pay market wage rates.

Unit pricing is based on November 2019 costs. Construction and project cost escalation has been excluded. RLB recommends including up to 3.5% per annum to the proposed start of construction for each project.

A design and estimating contingency (allowance) has been included at 20%.

Project related soft costs have been included at 40% of the estimated total construction cost(s).

#### Items Specifically Excluded

- . Hazardous materials abatement (if any)
- . Costs associated with phasing the construction work
- . Costs associated with out-of-normal working hours
- . Photovoltaics and other renewable energy resources
- . Murals and works of art
- . Work outside the site boundaries unless noted otherwise
- . Land acquisition and related legal costs
- . Items marked as "Excl." in the estimate
- . Construction and project cost escalation (refer to note above)
- . Building #2 exterior and/or interior renovation(s)

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Estimate Summary (Gross Project Costs)

Location	GFA SF	Cost/SF	Total Cost
HQ RENOVATION TO EXISTING HEADQUARTERS			
HQRENO RENOVATION TO EXISTING SPACES			
HQRENO1 Building 1 Interior Renovation	11,723	210.84	2,471,693
HQRENO2 Building 2 Interior Renovation (Excluded, NIC)			
HQRENOL New Lobby including Addition of Separate Entrance	1,500	527.10	790,656
HQRENO - RENOVATION TO EXISTING SPACES	13,223	\$246.72	\$3,262,349
HQRELO RELOCATION (ALLOWANCE FOR MODEST TI)	13,223	105.42	1,393,980
HQ - RENOVATION TO EXISTING HEADQUARTERS	26,446	\$176.07	\$4,656,329
SUB SUBSTATION (NEW BUILD) EQU EQUINE FACILITY (NEW BUILD)	44,215	527.10	23,305,884
EQUBLD BUILDING	17,230	95.14	1,639,292
EQUSW SITEWORK			2,681,766
EQU - EQUINE FACILITY (NEW BUILD)	17,230	\$250.79	\$4,321,058
ESTIMATED TTL COST	87,891	\$367.31	\$32,283,271



Estimate Summary - HQ Renovation

Location		GFA SF	Cost/SF	Total Cost
HQ RENOVATION TO EXISTING HEADQUARTERS				
HQRENO RENOVATION TO EXISTING SPACES				
HQRENO1 Building 1 Interior Renovation HQRENO2 Building 2 Interior Renovation (Excluded, NIC)		11,723	100.00	1,172,300
HQRENOL New Lobby including Addition of Separate Entrance  HQRENO - RENOVATION TO EXIST		1,500	250.00	375,000 \$1,547,300
HQRELO RELOCATION (ALLOWANCE FOR MODEST TI)	ING SPACES	13,223 13,223	\$117.02 50.00	\$1,547,300 661,150
TIGHTED RELOGATION (ALLOWANDE FOR MODEOF TI)		10,220	30.00	001,100
HQ - RENOVATION TO EXISTING HEAD	DQUARTERS	26,446	\$83.51	\$2,208,450
ESTIMATE	D NET COST	26,446	\$83.51	\$2,208,450
MARGINS & ADJUSTMENTS				
Design & Estimating Contingency (Allowance)	20.0 %			\$441,690
Subcontractor Default Insurance (SDI)	1.2 %			\$31,802
ESTIMATED DIRECT (TRADE) CONSTRUCTION COST	-	26,446	\$101.41	\$2,681,942
General Conditions including General & Temporary Requirements	10.0 %			\$268,194
Performance & Payment Bonds, General Liability Insurance (GLI) & Builders Risk Insurance	2.0 %			\$59,003
General Contractor's Overhead & Profit (Fee)	5.0 %			\$150,457
Applicable State Sales & Use Tax (65% 8.10%)	5.3 %			\$166,353
ESTIMATED CONSTRUCTION COST (CURRENT DOLLARS)	-	26,446	\$125.76	\$3,325,949
Project Related Soft Costs (Allowance)	40.0 %			\$1,330,380
Land Acquisition Costs (Excluded)				Excl.
ESTIMATED PROJECT COST (CURRENT DOLLARS)	-	26,446	\$176.07	\$4,656,329
Construction & Project Cost Escalation (Excluded, Refer to Project Details)				Excl.
ESTIMATED TOTAL C	OST	26,446	\$176.07	\$4,656,329



Estimate Detail - HQ Renovation

#### **HQ RENOVATION TO EXISTING HEADQUARTERS**

HQRENO RENOVATION TO EXISTING SPACES

GFA: 11,723 SF Cost/SF: \$100.00 Rates Current At November 2019

QRENO1 Building 1 Interior Renovation	Rates Current At November 20			
Description	Unit	Qty	Rate	Tota
F1020 Integrated Construction				
11 HQ Renovation - renovation of existing interior space	SF	11,723	100.00	1,172,30
Integrated Construction			\$100.00/SF	\$1,172,30
BUILDING 1 INTERIOR RENOVATION			\$100.00/SF	\$1,172,30



Estimate Detail - HQ Renovation

#### **HQ RENOVATION TO EXISTING HEADQUARTERS**

HQRENO RENOVATION TO EXISTING SPACES

GFA: 1,500 SF Cost/SF: \$250.00

scription	Unit	Qty	Rate	Tota
020 Integrated Construction				
HQ Renovation - new interior lobby including addition of separate entrance	SF	1,500	250.00	375,00
Integrated Construction			\$250.00/SF	\$375,00
NEW LOBBY INCLUDING ADDITION OF SEPARATE ENTRANCE			\$250.00/SF	\$375,00



Estimate Detail - HQ Renovation

#### HQ RENOVATION TO EXISTING HEADQUARTERS

GFA: 13,223 SF Cost/SF: \$50.00

QRELO RELOCATION (ALLOWANCE FOR MODEST TI)		Rates Current At November 2		
Description	Unit	Qty	Rate	Tota
1020 Integrated Construction				
HQ Renovation - Relocation (Allowance for Modest Tenant Improvement)	SF	13,223	50.00	661,15
Integrated Construction			\$50.00/SF	\$661,15
RELOCATION (ALLOWANCE FOR MODEST TI)			\$50.00/SF	\$661,15



Estimate Summary - Substation

Location		GFA SF	Cost/SF	Total Cost
SUB SUBSTATION (NEW BUILD)		44,215	250.00	11,053,750
	ESTIMATED NET COST	44,215	\$250.00	\$11,053,750
MARGINS & ADJUSTMENTS				
Design & Estimating Contingency (Allowance)	20.0 %			\$2,210,750
Subcontractor Default Insurance (SDI)	1.2 %			\$159,174
ESTIMATED DIRECT (TRADE) CONSTRUCTION COST	-	44,215	\$303.60	\$13,423,674
General Conditions including General & Temporary Requ	irements 10.0 %			\$1,342,367
Performance & Payment Bonds, General Liability Insuran Builders Risk Insurance	ce (GLI) & 2.0 %			\$295,321
General Contractor's Overhead & Profit (Fee)	5.0 %			\$753,069
Applicable State Sales & Use Tax (65% 8.10%)	5.3 %			\$832,629
ESTIMATED CONSTRUCTION COST (CURRENT DOLI	_ARS)	44,215	\$376.50	\$16,647,060
Project Related Soft Costs (Allowance)	40.0 %			\$6,658,824
Land Acquisition Costs (Excluded)				Excl.
ESTIMATED PROJECT COST (CURRENT DOLLARS)		44,215	\$527.10	\$23,305,884
Construction & Project Cost Escalation (Excluded, Refer Details)	to Project			Excl.
ESTIMATE	TOTAL COST	44,215	\$527.10	\$23,305,884



Estimate Detail - Substation

#### SUB SUBSTATION (NEW BILL D)

GFA: 44,215 SF Cost/SF: \$250.00 Rates Current At November 2019

SUB SUBSTATION (NEW BUILD)		Rates Current At November 2					
Description		Unit	Init Qty Rate T				
F1020 Integrated Construction							
6 Police Substation		SF	44,215	250.00	11,053,750		
	Integrated Construction			\$250.00/SF	\$11,053,750		
	SUBSTATION (NEW BUILD)			\$250.00/SF	\$11,053,750		



Estimate Summary - Equine Facility

Location		GFA SF	Cost/SF	Total Cost
EQU EQUINE FACILITY (NEW BUILD)				
EQUBLD Building		17,230	45.12	777,500
EQUSW Sitework		•		1,271,935
EQU - EQUINE FACILITY	(NEW BUILD)	17,230	\$118.95	\$2,049,435
ESTIMATE	D NET COST	17,230	\$118.95	\$2,049,435
MARGINS & ADJUSTMENTS				
Design & Estimating Contingency (Allowance)	20.0 %			\$409,887
Subcontractor Default Insurance (SDI)	1.2 %			\$29,512
ESTIMATED DIRECT (TRADE) CONSTRUCTION COST	-	17,230	\$144.45	\$2,488,834
General Conditions including General & Temporary Requirements	10.0 %			\$248,884
Performance & Payment Bonds, General Liability Insurance (GLI) & Builders Risk Insurance	2.0 %			\$54,754
General Contractor's Overhead & Profit (Fee)	5.0 %			\$139,623
Applicable State Sales & Use Tax (65% 8.10%)	5.3 %			\$154,375
ESTIMATED CONSTRUCTION COST (CURRENT DOLLARS)	-	17,230	\$179.13	\$3,086,470
Project Related Soft Costs (Allowance)	40.0 %			\$1,234,588
Land Acquisition Costs (Excluded)				Excl.
ESTIMATED PROJECT COST (CURRENT DOLLARS)	-	17,230	\$250.79	\$4,321,058
Construction & Project Cost Escalation (Excluded, Refer to Project Details)				Excl.
ESTIMATED TOTAL C	OST	17,230	\$250.79	\$4,321,058



Estimate Detail - Equine Facility

#### **EQU EQUINE FACILITY (NEW BUILD)**

**EQUBLD** Building

GFA: 17,230 SF Cost/SF: \$45.12 Rates Current At November 2019

Des	scription	Unit	Qty	Rate	Total
F10	020 Integrated Construction				
1	Equine Facility - Office	SF	1,225	150.00	183,750
2	Equine Facility - Support	SF	919	150.00	137,850
3	Equine Facility - Horse Area incl. Inner & Outer Stalls	SF	14,736	25.00	368,400
12	Equine Facility - Dog Area	SF	350	250.00	87,500
	Integrated Construction			\$45.12/SF	\$777,500
	BUILDING T			\$45.12/SF	\$777,500



Estimate Detail - Equine Facility

#### **EQU EQUINE FACILITY (NEW BUILD)**

**EQUSW Sitework** 

Rates Current At November 2019

Description	U	Jnit	Qty	Rate	Total
G2040 Site Development					
7 Equine Facility - Arena (100' x 200')		SF	20,000	35.00	700,000
13 Equine Facility - Site Development (1.73-Acres)		SF	38,129	15.00	571,935
	Site Development				\$1,271,935
	SITEWORK				\$1,271,935



## Appendix E – Project Cost Estimate Escalation Summary

The escalation summary provides a yearly escalation of the project costs based on 6 years of construction start time.



#### <u>City of Tempe Police Department HQ, Substation & Equine Facility</u> <u>Opinion of Probable Project Costs (Excluding Land Acquisition)</u>

	Current	Estimated Cost	Construction & Project Cost Escalation (Allowance, 3.5% Per Annum)						
Scope of Work	(November 2019 \$\$\$)		2020	2021	2022	2023	2024	2025	2026
HQ - Renovation to Existing Spaces Building 1 Interior Renovation New Lobby including Addition of Separate Entrance Relocation (Allowance for Modest TI)	\$ \$ \$	2,471,693 790,656 1,393,980	\$ 2,558,202 \$ 818,329 \$ 1,442,769	\$ 2,647,739 \$ 846,970 \$ 1,493,266	\$ 2,740,410 \$ 876,614 \$ 1,545,531	\$ 2,836,325 \$ 907,296 \$ 1,599,624	\$ 2,935,596 \$ 939,051 \$ 1,655,611	\$ 3,038,342 \$ 971,918 \$ 1,713,557	\$ 3,144,684 \$ 1,005,935 \$ 1,773,532
Substation	\$	23,305,884	\$ 24,121,590	\$ 24,965,846	\$ 25,839,650	\$ 26,744,038	\$ 27,680,079	\$ 28,648,882	\$ 29,651,593
Equine Facility	\$	4,321,058	\$ 4,472,295	\$ 4,628,825	\$ 4,790,834	\$ 4,958,513	\$ 5,132,061	\$ 5,311,684	\$ 5,497,592
Tot	al \$	32,283,271							
ROUNDED-COSTS									

	Current	Estimated Cost	Construction & Project Cost Escalation (Allowance, 3.5% Per Annum)						
Scope of Work	(Noven	(November 2019 \$\$\$)		2021	2022	2023	2024	2025	2026
HQ - Renovation to Existing Spaces									
Building 1 Interior Renovation	\$	2,472,000	\$ 2,559,000	\$ 2,649,000	\$ 2,742,000	\$ 2,838,000	\$ 2,937,000	\$ 3,040,000	\$ 3,146,000
New Lobby including Addition of Separate Entrance	\$	791,000	\$ 819,000	\$ 848,000	\$ 878,000	\$ 909,000	\$ 941,000	\$ 974,000	\$ 1,008,000
Relocation (Allowance for Modest TI)	\$	1,394,000	\$ 1,443,000	\$ 1,494,000	\$ 1,546,000	\$ 1,600,000	\$ 1,656,000	\$ 1,714,000	\$ 1,774,000
Substation	\$	23,306,000	\$ 24,122,000	\$ 24,966,000	\$ 25,840,000	\$ 26,744,000	\$ 27,680,000	\$ 28,649,000	\$ 29,652,000
Equine Facility	\$	4,321,000	\$ 4,472,000	\$ 4,629,000	\$ 4,791,000	\$ 4,959,000	\$ 5,133,000	\$ 5,313,000	\$ 5,499,000
	Total \$	32,284,000							

